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IBM Technical Disclosure Bulletins

Term: 204/451,455,469,601,605.ccls.

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Search History

DATE: Thursday, August 26, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT; PLUR=YES; OP=OR		
L18	204/451,455,469,601,605.ccls.	648	L18
L17	4485224.pn.	1	L17
L16	L12 and 4146690.pn.	0	L16
L15	L12 and 3082178.pn.	1	L15
L14	L12 and 3039529.pn.	0	L14
L13	L12 and 2827964.pn.	0	L13
L12	L11 and l10	3477	L12
L11	copolymer or (co adj polymer)	228178	L11
L10	L9 and l8	3979	L10
L9	acrylamide	51508	L9
L8	L7 or l6 or l4 or l3	4659	L8
L7	dimethylacryl adj amide	19	L7
L6	dimethyl adj acryl adj amide	10	L6
L5	dimethyl adj acry adj lamide	0	L5
L4	dimethyl adj acrylamide	1314	L4
L3	dimethylacrylamide	3712	L3

h e b b g e e e e ef f ff e ch

L2	4254249	24	L2
L1	4254249.pn.	1	L1

END OF SEARCH HISTORY

TERED AT 07:47:11 ON 26 AUG 2004)

FILE 'CAPLUS' ENTERED AT 07:47:45 ON 26 AUG 2004
L1 20234 S CAPILLARY (3W) ELECTROPHOR?
L2 46529 S ACRYLAMIDE#
L3 2543 S DIMETHYLACRYLAMIDE#
L4 131 S DIMETHYL (W) ACRYLAMIDE#
L5 4 S DIMETHYLACRYL (W) AMIDE#
L6 0 S DIMETHYL (W) ACRYL (W) NAMIDE#
L7 1 S DIMETHYL (W) ACRYL (W) AMIDE#
L8 136 S L4 OR L5 OR L6 OR L7
L9 646 S METHYLACRYLAMIDE#
L10 130 S METHYL (W) ACRYLAMIDE#
L11 3 S METHYLACRYL (W) AMIDE#
L12 0 S METHYL (W) ACRYL (W) AMIDE#
L13 762 S L9 OR L10 OR L11
L14 153 S ETHYLACRYLAMIDE#
L15 109 S ETHYL (W) ACRYLAMIDE#
L16 0 S ETHYLACRYL (W) AMIDE#
L17 0 S ETHYL (W) ACRYL (W) AMIDE#
L18 257 S L14 OR L15
L19 134 S ACRYL (W) AMIDE#
L20 46609 S L2 OR L19
L21 46931 S L13 OR L18 OR L20
L22 4 S L1 AND L8 AND L21

=> d l22 1-4 bib ab

L22 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:101203 CAPLUS
DN 140:147011
TI **Acrylamide** derivative graft copolymers, their preparation and use in **capillary electrophoresis**
IN Lau, Aldrich N. K.
PA PE Corp. (NY), USA
SO PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004011513	A1	20040205	WO 2003-US23457	20030729

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2002-399662P P 20020729
US 2002-399663P P 20020729

AB The invention relates to graft copolymers, their preparation, and compns., such as electrophoresis separation media, containing the same; also to ultra-high mol. weight poly(N,N-dimethylacrylamide) polymers, their preparation, and compns., such as electrophoresis separation media, containing the same; and more particularly to

supports, such as capillaries, containing these polymers and methods for separating biomols., especially polynucleotides, using **capillary electrophoresis**. The graft copolymers can be prepared by, e.g., grafting polyacrylamide units onto a poly(DMA) backbone. Separation media comprising such graft copolymers or ultra-high mol. weight poly(DMA) polymers yield superior performance in the anal. and separation of biomols. by **capillary electrophoresis**.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:185544 CAPLUS
DN 136:243973
TI Dynamic coating with linear polymer mixture for electrophoresis
IN Tan, Hongdong Roy; Sassi, Alexander; Cruzado, Ingrid
PA Aclara Biosciences, Inc., USA
SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002029968	A1	20020314	US 2001-847780	20010501
PRAI US 2000-201575P	P	20000501		

AB The invention concerns devices, compns. and methods for performing **capillary electrophoresis** using a composition comprising in combination in an aqueous buffered medium a coating polymer and a sieving polymer, where the sieving polymer is more hydrophilic than the coating polymer and is present in greater amount Of particular interest are uncrosslinked **acrylamide** polymer mixts. for coating plastic channels and providing sieving for performing DNA sepns. in microfluidic devices. Polyacrylamide or N,N-di-Me **acrylamide** is used with a N,N-dialkyl **acrylamide** copolymer, either sep. or together for sieving and coating, serving as the medium in **capillary electrophoresis** DNA sepns.

L22 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:184131 CAPLUS
DN 135:221966
TI DNA sequencing by **capillary electrophoresis** using copolymers of **acrylamide** and N,N-**dimethyl**-**acrylamide**
AU Song, Liguo; Liang, Dehai; Kielescawa, Jan; Liang, Jason; Tjoe, Edward; Fang, Dufei; Chu, Benjamin
CS Chemistry Department, State University of New York at Stony Brook, Stony Brook, NY, 11794-3400, USA
SO Electrophoresis (2001), 22(4), 729-736
CODEN: ELCTDN; ISSN: 0173-0835
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
AB Copolymers of **acrylamide** (AM) and N,N-dimethylacrylamide (DMA) with AM to DMA molar ratios of 3:1, 2:1 and 1:1 and mol. wts. of about 2.2 MDa were synthesized. The polymers were tested as separation media in DNA sequencing anal. by **capillary electrophoresis** (CE).
The dynamic coating ability of polydimethylacrylamide (PDMA) and the hydrophilicity of polyacrylamide (PAM) have been successfully combined in these random copolymers. A separation efficiency of over 10 million theor. plates per m has been reached by using the bare capillaries without the addnl. polymer coating step. Under optimized separation conditions for longer read length DNA sequencing, the separation ability of the copolymers decreased

with decreasing AM to DMA molar ratio from 3:1, 2:1 and 1:1. In comparison with PAM, the copolymer with a 3:1 AM:DMA ratio showed a higher separation efficiency. By using a 2.5% w/v copolymer with 3:1 AM:DMA ratio, one base resolution of 0.55 up to 699 bases and 0.30 up to 963 bases have been achieved in about 80 min at ambient temps.

RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:570993 CAPLUS
DN 127:173489
TI Creation and use of multiple gradients in electrophoresis in gel slabs and in capillaries
IN Righetti, Pier Giorgio; Gelfi, Cecilia
PA Righetti, Pier Giorgio, Italy; Gelfi, Cecilia
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9730346	A1	19970821	WO 1997-EP622	19970210
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2240681	AA	19970821	CA 1997-2240681	19970210
	AU 9717686	A1	19970902	AU 1997-17686	19970210
	AU 709906	B2	19990909		
	EP 880693	A1	19981202	EP 1997-903256	19970210
	EP 880693	B1	20030709		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11509001	T2	19990803	JP 1997-528970	19970210
	JP 3080995	B2	20000828		
	AT 244884	E	20030715	AT 1997-903256	19970210
PRAI	IT 1996-MI263	A	19960213		
	WO 1997-EP622	W	19970210		

AB The present invention refers to the use of multiple gradients (of chemical denaturants, thermal denaturants and of porosity of the gel matrix) for the separation of DNA fragments, amplified by PCR, normal or carrying point mutations, by zone electrophoresis on gel slabs or by **capillary electrophoresis** in presence of viscous polymer solns. (linear or branched). Such method can be extended to the anal. of mutations in proteins and to the optimization of, e.g., chiral sepns. in capillaries. The invention includes the use of binary gradients (chemical and porosity gradients or thermal and porosity gradients) or the simultaneous use of 3 gradients for point mutations having a very high m.p. In the case of **capillary electrophoresis**, the invention extends also to the use of batteries of capillaries, for the simultaneous anal. of a number of samples. Addnl., the invention includes the detection of DNA fragments (or of proteins and other analytes) by laser-induced fluorescence detection and the possibility of operating, in **capillary electrophoresis**, with mixed polymer solns. and with polyacrylamides obtained with monomers highly resistant to hydrolysis.

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